

Job Name: S16069
Maintenance Schedule

Equipment	Tag No.	Supplier	Action	Frequency	O&M Manual	Supplier O&M
Mixers						
Balance Tank Mixer	D103	Mixertech Ltd	Check general condition of the mixer drive unit & check for leaks	Daily	3a i)	Page 7
			Check mixer drive unit for deviating temperature or unusual noises			
			Check the mixer mounting bolts	Monthly		
			Check and clean cooling fan and fan guard of motor	1-Month		
			Replace mixer drive unit lubrication after initial installation	12-Monthly		
Sludge Tank Mixer	D109	Mixertech Ltd	Check general condition of the mixer drive unit & check for leaks	Daily	3a i)	Page 7
			Check mixer drive unit for deviating temperature or unusual noises			
			Check the mixer mounting bolts	Monthly		
			Check and clean cooling fan and fan guard of motor			
			Replace mixer drive unit lubrication	12-Monthly		
Pumps						
Screen Feed Pump	P101 & P102	Gorman-Rupp / Hydromarque Ltd	Visually inspect general condition of pump (temperature, unusual noises or vibrations, cracks, leaks, loose hardware, etc.)	Daily	3b i)	Page D-4
			Visually check pump performance (gauges, speed, flow)			Page E-15
			Inspect bearing & seal lubrication	Weekly		Page B-9
			Inspect V- belts	Monthly		Page B-6
			Inspect air release valve plunger rod			Page B-6
			Clean Air release valve plunger rod	6-Monthly		Page E-13
			Inspect front impellor clearance (wear plate)			Page E-14
			Inspect rear impellor clearance (seal plate)			Page E-15
			Clean pressure relief valve	12-Monthly		Page E-15
			Replace bearing & seal lubrication			Pages B-7, E-8, E-13,
Separator Feed Pump	P105 & P106	Weir Minerals Europe Ltd	Inspect V-belts	Weekly	3b ii)	Page 15
			Grease bearing housing			Page 15 & 17
			Inspect shaft gland seal	2-Weekly		Page 11
			Visually inspect general condition of pump for loose fixings & leaks	Monthly		Page 17
			Internal inspection of linear, impeller, & gland for wear	3-Monthly		Page 14 & 28
Coagulant Dosing Pump	P114 & P115	Grundfos Pumps Ltd	Visually inspect general condition of the pump & check for leaks between the pump & dosing head	Daily	3b iii)	Page 44
			Clean the valves & diaphragm	12-Monthly / every 4000 hours		Page 44
			Clean the suction & discharge Valves			Page 44
Polymer Dosing Pump	P106 & P107	Seepex / MSE Hiller	Visually inspect general condition of the pump (unusual noises, temperature, drive unit etc.)	Weekly	3b iv)	Section 7.2
			Visually inspect shaft seal / stator for leaks			Section 9.1.2
			Visually inspect & grease all joints	6-Monthly		Section 9.7.2
Sludge Extraction Pump	P109 & P110	Bredel Hose Pumps / Watson Marlow	Visually inspect general condition of the pump & check for leaks between the pump & dosing head	Daily	3b v)	Page 27 & 51
			Visually inspect the gearbox for any leakage			Page 27
			Check the pump for deviating temperature or unusual noises			Page 27 & 51
			Replace gearbox oil	6-Monthly		Page 27 & 29
			Replace pump hose & check pressing shoes for excessive wear			Page 28 & 30
Filter Press Feed Pump	P113	Verder Ltd	Replace pump housing lubrication	12-Monthly	3b vi)	Page 27 & 28
			Visually inspect general condition of the pump & check for leaks between the pump & dosing head	Daily		Page 19
			Check pump housing lubrication & geared motor unit oil levels			Page 19 & 13
			Check the pump for deviating temperature or unusual noises	6-Monthly		Page 13
			Replace pump housing lubricant			Page 13 &
Sand Filter Feed Pump	P111 & P112	Lowara / Industrial Pumps	Replace pump hose & check rotor shoes for excessive wear	12-Monthly	3b vii)	Page 22
			Check pump housing, rotor, rotor shoes & inserts internally			
Chlorine Dioxide Recirculation Pump	P103	Lowara / Industrial Pumps	Visually inspect general condition of the pump & check for leaks	Daily	3b viii)	Page 4
			Check the pump for deviating temperature or unusual noises			
Chiller Recirculation Water Pump	P120	Lowara / Industrial Pumps	Visually inspect general condition of the pump & check for leaks	Daily	3b ix)	Page 22
			Check the pump for deviating temperature or unusual noises			
Chiller Recirculation Glycol Pump	P123	Lowara / Industrial Pumps	Visually inspect general condition of the pump & check for leaks	Daily	3b x)	Page 22
			Check the pump for deviating temperature or unusual noises			
Factory Return Feed Pump	P121 & P122	Grundfos Pump Ltd	Visually inspect general condition of the pump & check for leaks	Daily	3b xi)	Page 11
			Check the pump for deviating temperature or unusual noises			Page 11
			Replace motor bearings	2-Yearly		

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Screen							
Screen	D104	Optima International Ltd	Check and clean wedge wire trough	Daily	3c	Page 7	
			Check screen drive assembly for deviating temperature or unusual noises	Weekly			
			Check gearbox lubricant level	Monthly			
			Check and clean cooling fan and fan guard of motor	Monthly		Page 7 & 23-27	
			Check polyurethane scrapers for wear or damage	Monthly			
			Check brush strip scrapers for wear or damage	2-Yearly			Page 11
Replace screen drive unit lubrication	2-Yearly						
Cyclone Separator							
Pneumatic Cylinder Linkage Mechanism	AV104	SMC UK / Brammer (Chesterfield)	BSL	Visually inspect condition of the hinged transfer box pneumatically operated mechanical linkage for unusual noises	Daily	SMC CG5-S manual pages 15 & 31-32	
				Check and clean pneumatic cylinder & position switches	Monthly		
Cyclone Separator	CS01 & CS03	Weir Minerals Europe Ltd		Check for loose fixings & leaks	Monthly	3d	Weir Mineral Maintenance Schedule
				Check Underflow Spigot for Wear	3-Monthly		
				Check Underflow Discharge Regulator for Wear	6-Monthly		
				Structure, Check and Repair / Replace Loose Bolts, Chutes, Check Linings for wear	Yearly		
			Internal Inspection of Liners and Vortex Finder for wear	Yearly			
Coagulant Dosing System							
Coagulant Dosing System	P114 & P115	Grundfos Pumps Ltd		Visually check coagulant level in storage containers	Daily	3e	N/A
				Visually check coagulant storage containers for damage & leaks			
Polymer Dosing System							
Polymer IBC		N/A		Visually check polymer level in IBC	Daily		N/A
Polymer Dosing System	D107	P&P Dosiertechnik / MSE Hiller		Visually inspect polymer unit tank & pipework for leakage. Check transfer pump & solenoid valves for unusual noises.	Twice Weekly	3f	Page 30
Clarifier							
Clarifier	D106	Siltbuster Ltd		Visually check over the units, look, listen to ensure that the flows are unimpeded & producing satisfactory effluent. The flash mixer & main rake are running smoothly. The drive unit assemblies for deviating temperature or unusual noises.	Daily	3g	Page 4
				Check launders and scum boxes for build up of solids and clean down if necessary	Weekly		
				Check build of product on the plastic lamella sheet surface	Monthly		
				Check flash & rake geared drive units lubrication level	3-Monthly		
Rotation Sensor	RS106	Telemecanique		Replace rake geared drive unit lubrication	12-Monthly		
				Check if fittings are loose and clean if necessary	2-Weekly	2f	Data Sheet
Load Cell	LC106	Sensor Techniques		Check if fittings are loose & clean if necessary	2-Weekly	2g	Data Sheet
Filter Press							
Filter Press	D111	Micronics Filtration Ltd		Check light guards are undamaged & functioning as normal. Press operations stop on entering the beams	Daily	3h	Press Frame Maintenance Manual Pages 51 & 52
				Check mechanical guards are in place and all fixings required to secure them are present and tight			
				Check fluid level in the power pack is correct			
				Check filter cloths are clean relative to the process & last wash cycle			
				Check filter cloths are not ripped or torn.			
				Check for unwanted hydraulic leaks			
				Check for missing nuts, screws washers and bolt	Weekly		
				Check hydraulic cylinder rod is clean & free from marks & pitting			
				Check plate shifter carriage tracks are clean & free from obstruction			
				Check tension of all mechanised plate shifter chains are in good order	Monthly		
				Check plate shifter carriage pawls function in the correct manner & there is no excessive wear			
				Check all emergency stop buttons function correctly & reset accordingly			
				Check no chafed, pinched or cut electrical cables	12-Monthly		
				Check no chafed, pinched or cut flexible pipes			
				Check filter plates are undamaged			
				Check press frame is undamaged	Weekly		
				Check bearings and bushes are in good condition			
				Check pressure gauges are functioning & zeroing			
				Renew hydraulic oil with the recommended lubricant. Always renew oil filters at this time	Monthly		
	Check the performance and running conditions of the whole system. Inspect strainers, locking of relief valves, tank cover and solenoid covers etc. Check fluid temperature and pressure						
	Shifter Drag Chain - Brush on a thin film of oil.						
	Secondary Shifter Drive Chain - Brush on a thin film of oil.	Weekly					
	Primary Shifter Drive Chain - Brush on a thin film of oil.						
	Drip Tray Cylinder Bushes - Lubricate using an oil can.						
	Plate Shifter Pawl Catches - Lubricate using an oil can.	Monthly					
	Primary Washer Drive Chain - Brush on a thin film of oil.						
	Washer Traction Chain - Brush on a thin film of oil.						

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Sand Filter						
Sand filter	SF01	Hydro International	Check sand filter's sand drop rate.	Weekly	3i	DS5000 Basic Guide Page 17
			Check sand filter's washwater rate			
			Check sand filter visual sand lift			
			Check sand filter's headloss			
Treated Water Tank						
Treated Water Tank	T109	Braithwaite Engineers Ltd	Inspect the tank externally for any sign of dampness around its base	12-Monthly	3j	Operation & Maintenance Data Sheet
			Inspect the tank fittings and accessories to ensure that Air vent, overflow are clean and unobstructed			
			Inspect the tank fittings & manway access are secure and sealed			
			Inspect the access landers & handrails are securely fixed.			
Chlorine Dioxide System						
Chlorine Dioxide Dosing System		Prominent Fluid Controls (UK) Ltd	Check the ClO2 concentration in the treated water	Daily	3k	Pages 70 & 71
			Check and compare the fill levels in the chemicals day tanks			
			Document the consumption of the 9% hydrochloric acid and 7.5% sodium chloride (system logbook).			
			Check the flow in the bypass			
			Check the system for leakages			
			Check metering pumps for leaks			
			Check pressure & suction pipework for leaks			
			Check pump leakage hole, if moisture is present, diaphragm is damaged			
Complete service including full inspection and report by Prominent Fluid Controls (UK) Ltd	12-Monthly					
Chiller						
Chiller Unit		Climaveneta UK / Advanced Climate Rentals	Check compressor oil level	Daily	3l	Page 16
			Check overheating			
			Check water circuit filling			
			Check supply voltage			
			Check refrigeration liquid load			
			Check the surfaces of the packaged coil and fans and clean if necessary			
			Check the condition of the hoses	Monthly		
			Check calibration and operation of safety devices			
			Check evaporator resistance operation			
			Check state of remote control contacts	6-Monthly		
Check oil for acidity and cleanliness and change compressor oil if required						
Complete service including full inspection and report by Climaveneta UK / Advanced Climate Rentals	12-Monthly					
Compressor						
Air Compressor	AC01	Atlas Copco Ltd	Check oil level.	Daily	3m	Page 153
			Check readings on display			
			Check that condensate is discharged during loaded operation of the compressor			
			Drain condensate from the compressed air receiver (tank-mounted compressors)			
			Check the pressure dew-point temperature (compressors with integrated dryer).	3-Monthly		
			Remove the air filter element and inspect. If necessary, clean using an air jet.			
			Check the filter element of the electric cabinet			
Inspect the air receiver	12-Monthly					